Project Location:
San Juan El Espino El Salvador

Climate: Tropical

Rainy Season (4’ of rain annually):
May–October

Dry Season:
November—April

Project Description:
A road links the rural community of 2,000 people to the local town. It is being slowly eroded by a stream that drops 30 feet from a culvert under the road into a pool. School children are forced to travel long distances around the area.

Proposed Solution:
Gabion basket wall on eroding face and more Gabion baskets on pool floor to reduce erosion.

Expected construction start date: January 2014

The design shown above has the existing culvert replaced with an arch pipe that can handle 750 cfs.

The Gabion baskets shown as boxes in the profile are 1m x 1m x 2m.

The extra Gabion basket at the end of the drop pool is designed to reduce the probability of scouring occurring.

The culvert and hole shown above have little to no water in the dry season. During the rainy season the estimated peak flow is 750 cfs. Because of this, the construction will have to take place during the dry season.

Below is the alternate road that must be used.